



September 11, 2019

Arcelor Mittal USA, Inc.
250 W US Highway 12
Burns Harbor, IN 46304-9745

Work Order No.: 19H1388

Re: Daily

Dear Teri Kirk:

Microbac Laboratories, Inc. - Chicagoland Division received 14 sample(s) on 8/22/2019 9:50:00AM for the analyses presented in the following report as Work Order 19H1388.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please contact your project manager. For any feedback, please contact Ron Misiunas, Division Manager, at ron.misiunas@microbac.com.

Sincerely,
Microbac Laboratories, Inc.

A handwritten signature in black ink that reads "Carey Gadzala". The signature is written in a cursive, flowing style.

Carey Gadzala
Project Manager

[Microbac Laboratories, Inc.](http://www.microbac.com)

250 West 84th Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8378 p | 219.769.1664 f | www.microbac.com



WORK ORDER SAMPLE SUMMARY

Date: *Wednesday, September 11, 2019*

Client: Arcelor Mittal USA, Inc.
Project: Daily
Lab Order: 19H1388

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
19H1388-01	011-Composite	011	08/21/2019 06:05	8/22/2019 9:50:00AM
19H1388-02	011-Grab	011	08/21/2019 06:05	8/22/2019 9:50:00AM
19H1388-03	001-Composite	001	08/21/2019 06:25	8/22/2019 9:50:00AM
19H1388-04	001-Grab	001	08/21/2019 06:25	8/22/2019 9:50:00AM
19H1388-05	Mixed Liquor-Grab	Mixed Liquor	08/22/2019 06:54	8/22/2019 9:50:00AM
19H1388-06	J-Box-Grab	J-Box	08/22/2019 06:50	8/22/2019 9:50:00AM
19H1388-07	RSB FT Overflow-Grab	RSB FT Overflow	08/22/2019 07:37	8/22/2019 9:50:00AM
19H1388-08	999-Grab	999	08/22/2019 07:47	8/22/2019 9:50:00AM
19H1388-09	002-Grab	002	08/21/2019 08:00	8/22/2019 9:50:00AM
19H1388-10	CM1-Grab	CM1	08/22/2019 00:00	8/22/2019 9:50:00AM
19H1388-11	CM2-Grab	CM2	08/22/2019 00:00	8/22/2019 9:50:00AM
19H1388-12	CM6 Grab	CM6	08/22/2019 00:00	8/22/2019 9:50:00AM
19H1388-13	HM2-Grab	HM2	08/22/2019 00:00	8/22/2019 9:50:00AM
19H1388-14	HM3-Grab	HM3	08/22/2019 00:00	8/22/2019 9:50:00AM

Field Results

Client:	Arcelor Mittal USA, Inc.	Work Order:	19H1388
Client Project:	Daily		
Client Sample ID:	011-Grab	Work Order/ID:	19H1388-02
Sample Description:	011	Sampled:	08/21/2019 06:05
Matrix:	Aqueous	Received:	08/22/2019 09:50

Analyses	Result	Units
FLD_CL_TITR	0.00	mg/L
pH	7.8	pH Units

Client Sample ID:	001-Grab	Work Order/ID:	19H1388-04
Sample Description:	001	Sampled:	08/21/2019 06:25
Matrix:	Aqueous	Received:	08/22/2019 09:50

Analyses	Result	Units
FLD_CL_TITR	0.00	mg/L
pH	7.9	pH Units

Client Sample ID:	J-Box-Grab	Work Order/ID:	19H1388-06
Sample Description:	J-Box	Sampled:	08/22/2019 06:50
Matrix:	Aqueous	Received:	08/22/2019 09:50

Analyses	Result	Units
pH	8.5	pH Units

Client Sample ID:	RSB FT Overflow-Grab	Work Order/ID:	19H1388-07
Sample Description:	RSB FT Overflow	Sampled:	08/22/2019 07:37
Matrix:	Aqueous	Received:	08/22/2019 09:50

Analyses	Result	Units
pH	9.1	pH Units

Client Sample ID:	999-Grab	Work Order/ID:	19H1388-08
Sample Description:	999	Sampled:	08/22/2019 07:47
Matrix:	Aqueous	Received:	08/22/2019 09:50

Analyses	Result	Units
pH	8.2	pH Units

Client Sample ID:	002-Grab	Work Order/ID:	19H1388-09
Sample Description:	002	Sampled:	08/21/2019 08:00
Matrix:	Aqueous	Received:	08/22/2019 09:50

Analyses	Result	Units
pH	8.4	pH Units



CASE NARRATIVE

Date: *Wednesday, September 11, 2019*

Client: Arcelor Mittal USA, Inc.

Project: Daily

Lab Order: 19H1388

Report has been revised at the clients request to include Cu and Ag for Outfall 001. 9/11/19

Microbac Laboratories, Inc.

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Analytical Results

Date: Wednesday, September 11, 2019

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1388-01
Client Project:	Daily	Sampled:	08/21/2019 6:05
Client Sample ID:	011-Composite	Received:	08/22/2019 9:50
Sample Description:	011		
Matrix:	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
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Method: EPA 200.7 Rev 4.4

Analyst: RPL

Total Recoverable Metals by ICP

Prep Date/Time: 08/22/2019 10:26

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
Lead	ejj	A	ND	0.0033	0.0075	U	mg/L	1	08/22/2019 14:11
Zinc	ejj	A	0.0086	0.0073	0.020		mg/L	1	08/22/2019 14:11

Analytical Results

Date: Wednesday, September 11, 2019

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1388-03
Client Project:	Daily	Sampled:	08/21/2019 6:25
Client Sample ID:	001-Composite	Received:	08/22/2019 9:50
Sample Description:	001		
Matrix:	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
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Method: EPA 200.7 Rev 4.4

Analyst: RPL

Total Recoverable Metals by ICP

Prep Date/Time: 08/22/2019 10:26

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
Copper	ejj	A	0.0054	0.0013	0.010		mg/L	1	08/22/2019 14:16
Lead	ejj	A	ND	0.0033	0.0075	U	mg/L	1	08/22/2019 14:16
Zinc	ejj	A	ND	0.0073	0.020	U	mg/L	1	08/22/2019 14:16

Method: EPA 200.8 Rev 5.4

Analyst: BTM

Total Recoverable Metals by ICP/MS

Prep Date/Time: 09/08/2019 12:49

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
Silver	ejj	A	ND	0.000053	0.00060	U	mg/L	1	09/09/2019 11:56

Analytical Results

Date: Wednesday, September 11, 2019

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1388-05
Client Project:	Daily	Sampled:	08/22/2019 6:54
Client Sample ID:	Mixed Liquor-Grab	Received:	08/22/2019 9:50
Sample Description:	Mixed Liquor		
Matrix:	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: SM 2540 F-1997				Analyst: DAT		
			Prep Date/Time: 08/22/2019 10:20						
Settleable Solids									
Settleable Solids	i	A	170	1.0	1.0		ml/L	1	08/22/2019 11:20
			Method: SM 2540 D-1997				Analyst: KMT		
			Prep Date/Time: 08/22/2019 10:49						
Total Suspended Solids									
Total Suspended Solids	ejj	A	1800	1.0	1.0		mg/L	1	08/22/2019 12:30

Analytical Results

Date: *Wednesday, September 11, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1388-06
Client Project:	Daily	Sampled:	08/22/2019 6:50
Client Sample ID:	J-Box-Grab	Received:	08/22/2019 9:50
Sample Description:	J-Box		
Matrix:	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: SM 2540 D-1997			Analyst: KMT			
Total Suspended Solids									
Prep Date/Time: 08/22/2019 10:49									
Total Suspended Solids	ejj	A	11	1.0	1.0		mg/L	1	08/22/2019 12:30

Analytical Results

Date: *Wednesday, September 11, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1388-10
Client Project:	Daily	Sampled:	08/22/2019 0:00
Client Sample ID:	CM1-Grab	Received:	08/22/2019 9:50
Sample Description:	CM1		
Matrix:	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: SM 2540 D-1997			Analyst: KMT			
Total Suspended Solids									
Prep Date/Time: 08/22/2019 10:49									
Total Suspended Solids	ejj	A	10	1.0	1.0		mg/L	1	08/22/2019 12:30

Analytical Results

Date: *Wednesday, September 11, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1388-11
Client Project:	Daily	Sampled:	08/22/2019 0:00
Client Sample ID:	CM2-Grab	Received:	08/22/2019 9:50
Sample Description:	CM2		
Matrix:	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: SM 2540 D-1997			Analyst: KMT			
Total Suspended Solids									
Prep Date/Time: 08/22/2019 10:49									
Total Suspended Solids	ejj	A	11	1.0	1.0		mg/L	1	08/22/2019 12:30

Analytical Results

Date: *Wednesday, September 11, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1388-12
Client Project:	Daily	Sampled:	08/22/2019 0:00
Client Sample ID:	CM6 Grab	Received:	08/22/2019 9:50
Sample Description:	CM6		
Matrix:	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: SM 2540 D-1997			Analyst: KMT			
Total Suspended Solids									
Prep Date/Time: 08/22/2019 10:49									
Total Suspended Solids	ejj	A	10	1.0	1.0		mg/L	1	08/22/2019 12:30

Analytical Results

Date: *Wednesday, September 11, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1388-13
Client Project:	Daily	Sampled:	08/22/2019 0:00
Client Sample ID:	HM2-Grab	Received:	08/22/2019 9:50
Sample Description:	HM2		
Matrix:	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: SM 2540 D-1997			Analyst: KMT			
Total Suspended Solids									
Prep Date/Time: 08/22/2019 10:49									
Total Suspended Solids	ejj	A	14	1.0	1.0		mg/L	1	08/22/2019 12:30

Analytical Results

Date: *Wednesday, September 11, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1388-14
Client Project:	Daily	Sampled:	08/22/2019 0:00
Client Sample ID:	HM3-Grab	Received:	08/22/2019 9:50
Sample Description:	HM3		
Matrix:	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: SM 2540 D-1997			Analyst: KMT			
Total Suspended Solids									
Prep Date/Time: 08/22/2019 10:49									
Total Suspended Solids	ejj	A	13	1.0	1.0		mg/L	1	08/22/2019 12:30

ANALYTE TYPES: (AT)

A, B = Target Analyte

I = Internal Standard

M = Summation Analyte

S = Surrogate

T = Tentatively Identified Compound (TIC, concentration estimated)



QC SAMPLE IDENTIFICATIONS

BLK = Method Blank

DUP = Method Duplicate

BS = Method Blank Spike

MS = Matrix Spike

ICB = Initial Calibration Blank

CCB = Continuing Calibration Blank

CRL = Client Required Reporting Limit

PDS = Post Digestion Spike

QCS = Quality Control Standard

ICSA = Interference Check Standard "A"

ICSAB = Interference Check Standard "AB"

BSD = Method Blank Spike Duplicate

MSD = Matrix Spike Duplicate

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

OPR = Ongoing Precision and Recovery Standard

SD = Serial Dilution

CERTIFICATIONS (Certs)

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

d Illinois EPA drinking water, wastewater and solid waste analysis (#200064)

i Kansas Dept Health & Env. NELAP (#E-10397)

j Kentucky Wastewater Laboratory Certification Program (#108202)

FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)**MDL:** Minimum Detection Limit**RL:** Reporting Limit**RPD:** Relative Percent Difference**U:** The analyte was analyzed for but was not detected above the reported quantitation limit. The quantitation limit has been adjusted for any dilution or concentration of the sample.

Cooler Receipt Log

Cooler ID: Default Cooler

Temp: 2.7°C
 MICROBAC®

Comments

Metals sample preserved at lab

Cooler Inspection Checklist

Ice Present or not required?	Yes
Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes
Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes
Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes
Sample type identified on COC?	Yes
Correct type of Containers Received	Yes
Correct number of containers listed on COC?	Yes
Containers Intact?	Yes
COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes
Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes
Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes
Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes

Microbac Laboratories, Inc.

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ArcelorMittal

Chain of Custody

ArcelorMittal Burns Harbor/Microbac Labs

Thursday

Lab Work No: 19H1388

* Date Obtained: 8-22-19
** Sample Date: 8-21-19

Location	Time	Sampler	Type	Preserved	Cooled	Containers			Parameters	Comments
						Type	Qty	Vol. (ml)		
011 **	<u>06:05</u>	<u>CO</u>	Comp	No	Yes	Glass	1	4000		01
			Grab	No	No	Plastic	1	500	pH	02
001 **	<u>06:35</u>		Comp	No	Yes	Glass	1	4000		03
			Grab	No	No	Plastic	1	125	pH	04
Mixed Liquor *	<u>06:54</u>		Grab	No	No	Plastic	1	2000	TSS, Settling	05
DIW-131 *			Grab	No	No	Plastic	1	125	pH	X
J-Box *	<u>06:50</u>		Grab	No	No	Plastic	1	1000	TSS, pH	06
RSB FT Overflow *	<u>07:37</u>		Grab	No	No	Plastic	1	125	pH	07
999 *	<u>07:47</u>		Grab	No	No	Plastic	1	500	pH	08
002 **	<u>08:00</u>		Grab	No	No	Plastic	1	125	pH	09
SWTP *	<u>14</u>	***	Grab	No	No	Plastic	<u>75</u>	1000	TSS	10-14

*** WPL is for previous sample date

**** Sample collected by Water Process personnel

No HM 1 + CM 3

$$\begin{array}{r}
 3.0 \\
 \text{OI} \quad -0.3 \\
 \hline
 2.7 \text{ } ^\circ\text{C}
 \end{array}$$

Relinquished by: *CDuh...*
 Received by: *12 - OTO*

Date: 8-22-19
 Date: 8/22/19

Time: 08:15
 Time: 0815

Env 4x Rev. 8 07/01/16 (TEK)

19H1388 Carey Gadzala
 ArcelorMittal - Burns Harbor, IN
 Thursday
 08/22/2019



Microbac Laboratories - Chicagoland Division
pH - METHOD 9045D
Arcelor Mittal /Burns Harbor NPDES

Sample ID		pH	Analyst	Date/Time of Analysis
Buffer ID: Meter ID:	4: 185909	7: 188312	10: 187680	
Calibration	(4) 10 100		BAO	8/21/19 0800
ICV	4 10 10	6.99		
Slope		99.1		
Lake 999		8.22		
Location 001		7.90		
Location 002		8.41		
Location 011		7.90		
WAL 1		8.62		
WAL 2	_____	_____		
SWTP J-Box		8.73		
DIW 131	_____	_____		
RSB		8.86		
Dup- 002		8.42		
CCV		7.00	↓	↓

Sample ID		pH	Analyst	Date/Time of Analysis
Buffer ID: Meter ID:	4: 185909	7: 188312	10: 187680	
Calibration	(4) 10 100		BAO	8/22/19 0750
ICV	4 10 10	6.99		
Slope		98.3		
Lake 999		8.23		
Location 001		7.85		
Location 002		8.43		
Location 011		7.84		
WAL 1	_____	_____		
WAL 2	_____	_____		
SWTP J-Box		8.47		
DIW 131	_____	_____		
RSB		9.07		
Dup- 011		7.85		
CCV		6.99	↓	↓

Microbac Laboratories, Inc. - Chicagoland Division

Total Residual Chlorine - Amperometric Titration - SM Method 4500-ClE - 2000
for Arcelor Mittal - Burns Harbor

Date/Time: 8/22/19 0750
 Analyst: PAO
 pH Paper Lot #: 45626
 LCS ID: A9074

STD ID / Lot #
 KI Solution: 146367
 Acetate buffer: 146366
 PAO Titrant: 145348

Exp. Date
6/30/19
7/25/20
5/31/20

Exp. Date
11/20

Sample ID	Sample Vol. (mL)	pH (pH Units)	Titrant Start (mL)	Titrant Stop (mL)	Titrant Vol. (mL)	Result (mg/L)
Blank	200	4.0	0.00	0.00	0.00	0.00
LCS		4.0		0.10	0.10	0.10
Outfall 001		4.0		0.00	0.00	0.00
Outfall 002		4.0		0.00	0.00	0.00
Outfall 003		4.0		0.00	0.00	0.00
Outfall 011		4.0		0.00	0.00	0.00
Outfall 011 Dup		4.0		0.00	0.00	0.00
Outfall 002 Dup		4.0		0.00	0.00	0.00

Date/Time: _____
 Analyst: _____
 pH Paper Lot #: _____
 LCS ID: _____

STD ID / Lot # _____
 KI Solution: _____
 Acetate buffer: _____
 PAO Titrant: _____

Exp. Date _____
 Exp. Date _____

Sample ID	Sample Vol. (ml)	pH (pH Units)	Titrant Start (ml)	Titrant Stop (ml)	Titrant Vol. (ml)	Result (mg/L)
Blank						
LCS						
Outfall 001						
Outfall 002						
Outfall 003						
Outfall 011						
Outfall 011 Dup						
Outfall Dup						

Chlorine, mg/L = (Titrant Vol., mL) (200 mL) / (Sample Vol., mL)

revision: a_01_2016



Contractor timesheet

ArcelorMittal

Section 1

Date: 8/22/19 Shift: Day
 Contractor company name: Microbac PO number: Labs
 Contractor ref #/job #: Form number: 2966628
 ArcelorMittal Representative: Warren Howard Requisition number: 0799887
 Department: FMO Description of work: Water Samples Percent job complete:

Section 2

Badge no.	Last name	First name	Craft	ST	OT	DT	Total	Billable equipment/subcontractors/material	Job notes																																					
164092	OTH	Prin	TEC	1			1	<table border="1"> <thead> <tr> <th>ID</th> <th>Description</th> <th>Hours/amt total</th> </tr> </thead> <tbody> <tr> <td>Qly</td> <td>Hours/amt total</td> <td></td> </tr> <tr> <td>ID <td>Description <td>Hours/amt total</td> </td></td></tr> <tr> <td>Qly</td> <td>Hours/amt total</td> <td></td> </tr> <tr> <td>ID <td>Description <td>Hours/amt total</td> </td></td></tr> <tr> <td>Qly</td> <td>Hours/amt total</td> <td></td> </tr> <tr> <td>ID <td>Description <td>Hours/amt total</td> </td></td></tr> <tr> <td>Qly</td> <td>Hours/amt total</td> <td></td> </tr> <tr> <td>ID <td>Description <td>Hours/amt total</td> </td></td></tr> <tr> <td>Qly</td> <td>Hours/amt total</td> <td></td> </tr> <tr> <td>ID <td>Description <td>Hours/amt total</td> </td></td></tr> <tr> <td>Qly</td> <td>Hours/amt total</td> <td></td> </tr> </tbody> </table>	ID	Description	Hours/amt total	Qly	Hours/amt total		ID <td>Description <td>Hours/amt total</td> </td>	Description <td>Hours/amt total</td>	Hours/amt total	Qly	Hours/amt total		ID <td>Description <td>Hours/amt total</td> </td>	Description <td>Hours/amt total</td>	Hours/amt total	Qly	Hours/amt total		ID <td>Description <td>Hours/amt total</td> </td>	Description <td>Hours/amt total</td>	Hours/amt total	Qly	Hours/amt total		ID <td>Description <td>Hours/amt total</td> </td>	Description <td>Hours/amt total</td>	Hours/amt total	Qly	Hours/amt total		ID <td>Description <td>Hours/amt total</td> </td>	Description <td>Hours/amt total</td>	Hours/amt total	Qly	Hours/amt total		Total hours this sheet: 1 Previous hours: 1 Total hours to date: 1	Is this job capital work? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
ID	Description	Hours/amt total																																												
Qly	Hours/amt total																																													
ID <td>Description <td>Hours/amt total</td> </td>	Description <td>Hours/amt total</td>	Hours/amt total																																												
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Qly	Hours/amt total																																													

Section 3

Enter the total hours worked by each craft in the box to the right of each abbreviation. See reverse side of form for an explanation of the abbreviations.

ABW	CL	EL	GLZ	JAN	LTR	PF	TEC
BL	CO	EN	INS	LA	MW	PT	TST
BM	CP	FN	IW	LIC	OE	SU	TM

Section 4

I the undersigned attest that the hours recorded on the timesheet were actually worked by the contractor employee at the plant work location on the date listed above.

Contractor authorization signature: [Signature]
 Job title: FLD Service Tech
 Date: 8/22/19
 Printed name: B. OTH

Section 5

Work authorization permit # 307245

Section 6

I the undersigned have verified that contractor employees, hours, and date listed on the timesheet are accurate, complete and valid for the date and plant work location listed above.

ArcelorMittal authorization signature: [Signature]
 Job title: Supervisor
 Date: 8/22/19
 Printed name: Warren Howard

Daily work authorization form for all visiting workers



For each job, and before starting work at the job site, a contractor representative must meet face to face with the ArcelorMittal representative responsible for the work and discuss the work to be performed and any specific safety requirements.

ArcelorMittal

Section 1
 Company name Micrebac Labs
 Company contact/phone no Camp Gatzula 769-83378
 Location and project/job description Camp Evria Bldg/ water samples
 The named contractor or work crew is cleared to perform the job described herein:
 ArcelorMittal representative Wharre Howard
 ArcelorMittal representative department E-D
 ArcelorMittal representative phone number 4863
 Date 8/21/19
 Cell _____
 Clinic pickup point _____

HIRAC-Lite	Yes	N/A	No	Yes	N/A	No	Yes	N/A	No
1) Are emergency evacuation areas identified and known?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2) Is there a current and valid isolation (LOTO) procedure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3) Will everyone apply a personal safety lock?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4) Are there adjacent work crews exposed (including ArcelorMittal employees)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5) Are there potential hazards or high risk job steps?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6) Do we have the correct tools for the job?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7) Is additional PPE required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8) Is there a potential for exposure (chemical, radiation, laser, temperature)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9) Is someone working on or near energized electrical equipment (motor control rooms, overhead power lines, etc.)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10) Could someone be caught in or between anything?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11) Could someone get hurt as a result of a fall from height?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12) Can something fall and/or strike me or someone else?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13) Is everyone properly trained for this job?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14) Are flags and deraills in place if needed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15) Can we slip or trip on anything (including travel to and from the job)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16) Have all affected people been notified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17) Can we strain or overexert ourselves?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18) Has equipment been inspected prior to use? (tools, PPE, mobile equipment, etc.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Other Hazards and Considerations for Discussion										Permits	
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